

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : FUJI XEROX CO LTD

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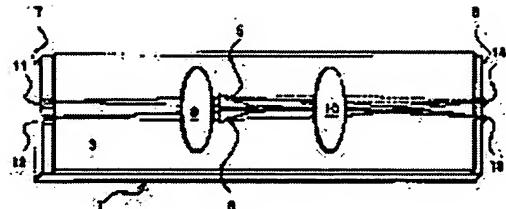
(72)Inventor : NASHIMOTO KEIICHI

(54) OPTICAL SWITCH

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an optical switch in which the number of optical switch elements can be decreased, insertion loss and crosstalk are less, and switching among ports having appropriate interval can be realized by driving voltage and good balanced size.

SOLUTION: Light beams made incident from each optical fiber through a channel optical waveguide 11 from an incident end plane 7 in parallel mutually are diverged by an optical waveguide part 3, after they are made parallel beams by a first thin film lens 9 in an incident channel optical waveguide end, they are converged to an outgoing terminal end plane 8 by a second thin film lens 10, and made incident on each optical fiber through channel optical waveguides 13, 14. Light beams are deflected by applying voltage between a prism type upper part electrode 5 arranged between the first thin film lens 9 and the second thin film lens 10 and a substrate 1 being a lower part electrode and the optical waveguide is switched to a channel optical waveguide.



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